

Magnetic Resonance in Solids, 2016, vol.18, N2

Magnetic properties of powders LiTbF_4 and TbF_3

Alakshin E., Klochkov A., Korableva S., Kuzmin V., Nuzhina D., Romanova I., Savinkov A., Tagirov M.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Kazan Federal University (KFU). Samples LiTbF_4 and TbF_3 were synthesized by modified methods of colloidal chemistry. The magnetization of these samples was measured in the external magnetic field at 100 Oe and 1T and in temperature range 2-300 K. Temperatures of phase transition to the magnetic ordering dipolar ferromagnet state were determined for synthesized samples.

Keywords

Curie temperature, Magnetization, Synthesis